

CLAIMS

What is claimed is:

1. A liquid crystal device comprising:

a pair of substrates which hold a liquid crystal therebetween;

a light guide provided opposite to one of the substrates;

a flexible substrate connected to one of the substrates; and

a light emitting device provided opposite to a light receiving surface of the light guide;

wherein the light emitting device is mounted on the flexible substrate and arranged opposite to the light receiving surface of the light guide.

2. The liquid crystal device according to Claim 1, wherein the flexible substrate is bent along the light receiving surface of the light guide so that the light emitting device is arranged opposite to the light receiving surface.

3. The liquid crystal device according to Claim 1, wherein the flexible substrate has a terminal to be connected to one of the substrates, the light emitting device is provided on the same surface of the flexible substrate as the surface where the terminal is provided, and a wiring

pattern is provided on the surface opposite to the surface where the light emitting device is provided, the wiring pattern being connected to the terminal through a through hole.

4. The liquid crystal device according to Claim 1, wherein the flexible substrate has a terminal to be connected to one of the substrates, a wiring pattern is formed on the same surface as the surface on which the terminal is provided, and the light emitting device is provided on the same surface of the flexible substrate as the surface on which the wiring pattern is provided.

5. The liquid crystal device according to Claim 4, wherein the wiring pattern is provided on the flexible substrate so as to avoid the light emitting device.

6. The liquid crystal device according to Claim 1, wherein the light emitting surface is at the side of the mounted surface of the light emitting device to the flexible substrate, and the light emitting surface is arranged opposite to the light receiving surface of the light guide.

7. The liquid crystal device according to Claim 1, wherein the light guide is formed in a bent shape so that the light receiving surface

thereof faces a direction opposite to the pair of substrates, and the light emitting surface of the light emitting device is arranged opposite to the light receiving surface facing a direction opposite to the pair of substrates.

8. The liquid crystal device according to Claim 1, wherein the flexible substrate is used for supplying a signal for driving the liquid crystal.

9. A liquid crystal device comprising:
a pair of substrates which hold a liquid crystal therebetween;
a light guide provided opposite to one of the substrates;
a flexible substrate connected to one of the substrates; and
a light emitting device provided opposite to the light receiving surface of the light guide;

wherein the light emitting device is mounted on the flexible substrate and arranged opposite to the light receiving surface; and

positioning means is provided between the light emitting device and the light receiving surface of the light guide, for positioning the light emitting device.

10. The liquid crystal device according to Claim 9, wherein the

positioning means comprises a projecting portion provided on one of the light emitting device side and the light guide side, and a recessed portion provided on the other one of the light emitting device side and the light guide side to be engaged with the projecting portion.

11. The liquid crystal device according to Claim 10, wherein the projecting portion comprises a cylindrical pin or a triangular prism projection.

12. The liquid crystal device according to Claim 9, wherein the flexible substrate is bent along the light receiving surface of the light guide so that the light emitting device is arranged opposite to the light receiving surface.

13. The liquid crystal device according to Claim 9, wherein the flexible substrate has a terminal to be connected to one of the substrates, the light emitting device is provided on the same surface of the flexible substrate as the surface where the terminal is provided, and a wiring pattern is provided on the surface opposite to the surface where the light emitting device is provided, the wiring pattern being connected to the terminal through a through hole.

14. The liquid crystal device according to Claim 9, wherein the flexible substrate has a terminal to be connected to the substrate, a wiring pattern is formed on the same surface as the surface on which the terminal is provided, and the light emitting device is provided on the same surface of the flexible substrate as the surface on which the wiring pattern is provided.

15. The liquid crystal device according to Claim 14, wherein the wiring pattern is provided on the flexible substrate so as to avoid the light emitting device.

16. The liquid crystal device according to Claim 9, wherein the light emitting surface is at the side of the mounted surface of the light emitting device to the flexible substrate, and the light emitting surface is arranged opposite to the light receiving surface of the light guide.

17. The liquid crystal device according to Claim 9, wherein the light guide is formed in a bent shape so that the light receiving surface thereof faces a direction opposite to the pair of substrates, and the light emitting surface of the light emitting device is arranged opposite to the light receiving surface facing a direction opposite to the pair of substrates.

18. The liquid crystal device according to Claim 9, wherein the flexible substrate supplies a signal for driving the liquid crystal.

19. An electronic device comprising:

a liquid crystal device; and

a control circuit for controlling an operation of the liquid crystal device;

wherein the liquid crystal device is a liquid crystal device in accordance with Claim 1, and the flexible substrate is connected to the control circuit so that the light emitting device is arranged opposite to the light receiving surface of the light guide with the control circuit connected to the flexible substrate.